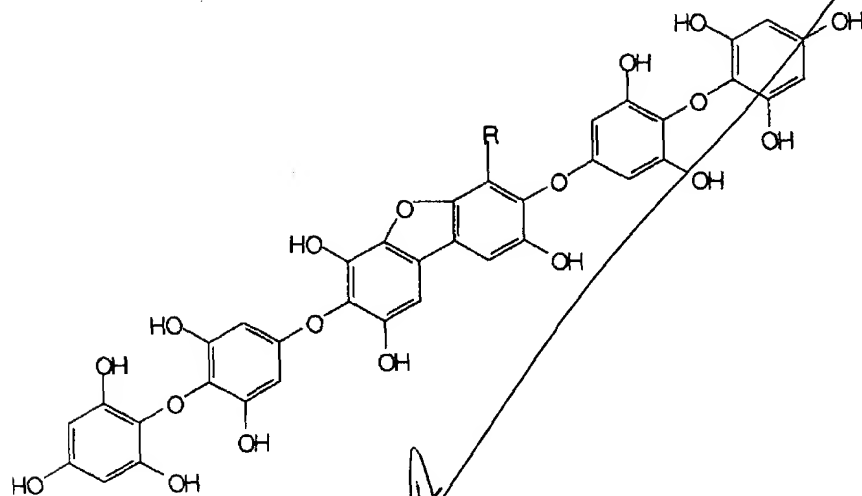


What is claimed is:

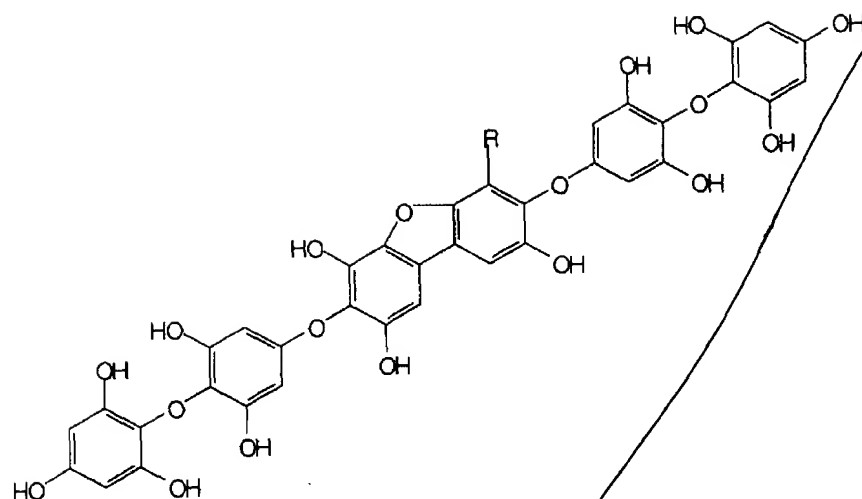
1. A ^{compd}(material) represented by the following Formula I.



wherein R is hydrogen or a hydroxy group.

2. An extract containing the material of claim 1, obtained from *Ecklonia cava* by use of an organic solvent.

3. A method for extracting and purifying from *Ecklonia cava*, the materials, represented by the following Formula I:



wherein R is hydrogen or a hydroxy group,
comprising the steps of:

- 5 extracting antioxidative ingredients from *Ecklonia*
cava once or more times with an organic solvent;
 fractionating the antioxidative ingredients one or
more times in solvents; and
 purifying the solvent fractions by chromatography.

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4. The method as set forth in claim 3, wherein said
organic solvent is selected from the group consisting of
methanol, ethanol, ethyl acetate, acetonitrile, acetone,
aqueous solutions thereof, and mixtures thereof.

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5. The method as set forth in claim 3, wherein the
extracting step is repeated using the same or different

solvents.

6. The method as set forth in claim 3, wherein the fractionating step comprises:

- 5 a primary solvent-fractionating step of fractionating the extract by using an aqueous 10 to 90 % methanol solution as a polar layer, and a linear or cyclic hydrocarbon solvent, an aromatic solvent, or a mixture thereof as a nonpolar layer;
- 10 a secondary solvent-fractionating step of fractionating an aqueous methanol layer obtained in the primary step by using an aqueous 10 to 60 % methanol solution as a polar layer and at least one ether as a nonpolar layer; and
- 15 a tertiary solvent-fractionating step of fractionating an aqueous methanol layer obtained in the secondary step by using an aqueous 10 to 60 % methanol solution as a polar layer and chloroform, dichloromethane, or a mixture thereof as a nonpolar layer.

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7. The method as set forth in claim 3, wherein the fractionating step comprises:

- 25 a primary solvent-fractionating step of fractionating the extract by using an aqueous 10 to 90 % methanol solution as a polar layer, and hexane as a nonpolar

layer;

a secondary solvent-fractionating step of fractionating an aqueous methanol layer obtained in the primary step by using an aqueous 20 to 40 % methanol solution as a polar layer and isopropyl ether as a nonpolar layer; and

a tertiary solvent-fractionating step of fractionating an aqueous methanol layer obtained in the secondary step by using an aqueous 30 to 50 % methanol solution as a polar layer and chloroform as a nonpolar layer.

8. The method as set forth in claim 3, further comprising the step of dissolving the extract in ethyl acetate and/or methanol and providing the dissolved portion to the fractionating step.

9. The method as set forth in claim 3, wherein the chromatography is medium pressure liquid chromatography (MPLC) or high performance liquid chromatography (HPLC).

10. Use of the material of claim 1 as antioxidants.

11. Use of the extract of claim 2 as antioxidants.